

Zwitterionic Imides

Abstract

- Zwitterionic imide compounds are provided according to the formula: R₁-SO₂-
- 5 N⁻-SO₂-R₂⁺, where R₁ and R₂⁺ are any suitable groups. Typically R₁ is a highly fluorinated alkane and R₂⁺ contains a quaternary ammonium group or a heteroatomic aromatic group having an cationic nitrogen, such as: pyridiniumyl, pyridaziniumyl, pyrimidiniumyl, pyraziniumyl, imidazolumyl, pyrazolumyl, thiazolumyl, oxazolumyl, or triazolumyl. Zwitterionic liquids are provided, typically having
- 10 melting points of less than 100 °C and typically having a solubility in water of less than 5% by weight.

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